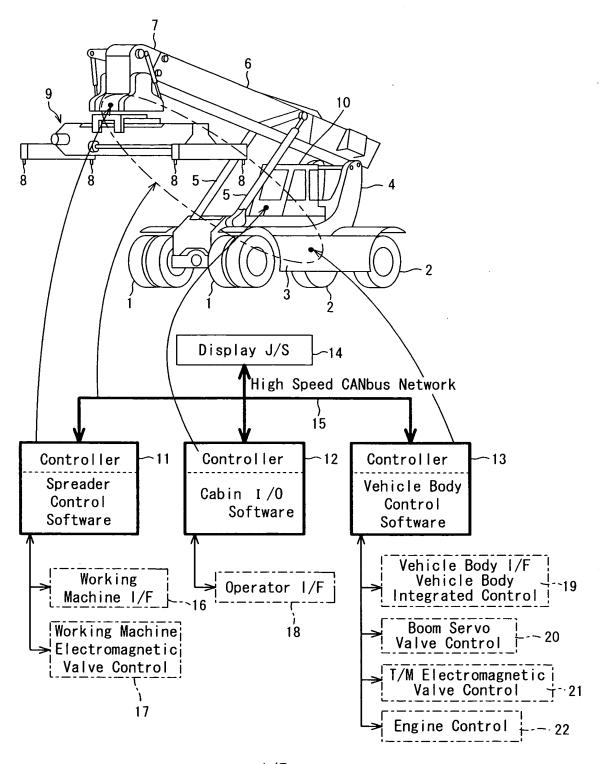
App No.: NEW Docket No.: 0965-0461PUS1 Inventor: Akiko SHINOZAKI et al. Title: CONTROLLERS FOR HEAVY DUTY INDUSTRIAL

VEHICLE
NEW SHEET Sheet 1 of 5

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Title: CONTROLLERS FOR HEAVY DUTY INDUSTRIAL
VEHICLE

NEW SHEET

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•					
	Common Controller	Reach Stacker	Heavy Duty F/L	M/G (Working Machine)	M/G (Heavy EAT)
Pulse input	4	2	2	1	3
Serial	Synchronous:1 Asynchronous: 1 CAN: 1	Asynchronous : 1 CAN: 1	Asynchronous:1 CAN:1	Synchronous:1 Asynchronous:1	Synchronous:1 Asynchronous:1
Servo valve output	9	Vehicle body:3 Spreader : 2	Lift, tilt:2 Spreader:3		4
Electromagnetic valve output	15	Vehicle body:12 Spreader:12	Vehicle body:12 Spreader:8	1	7
Analog input	9 1	Vehicle body:13 Cabin:5	Vehicle body:7 Cabin:9	9	9
Analog output	2	2	2	0	0
Contact input	24 (24V) 8 (5V)	Vehicle body:17(24V) Nearly the same Cabin:22(24V) as on the left 1(5V) Spreader:8(24V)		Versatile:8(5V) DIPSW:20 (For internal setting)	Versatile:2 Setting input:8(24V) 8(5V) DIPSW:8 (For internal setting)
Contact output	13 (24V) 5 (5V)	Vehicle body:2 (5V) Nearly the same Cabin:7(24V) as on the left Spreader:4(24V)		Versatile:5 (24V) For PWM data:8	Versatile:5 (24V) Lamp output 4(24V) For PWM data:8

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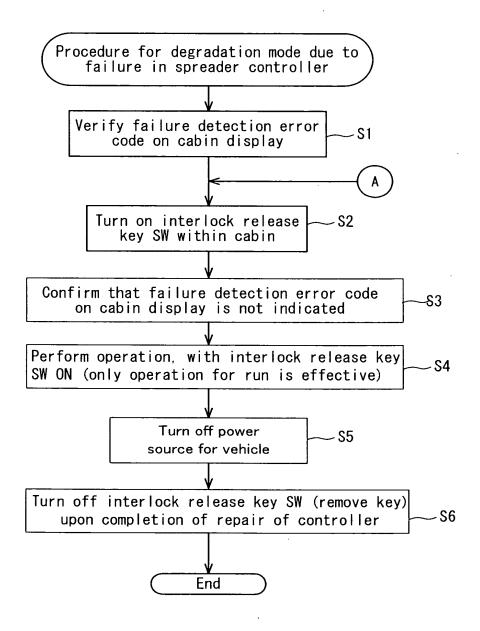
VEHICLE NEW SHEET

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Engine control Effective use/		utput	Commonality	
Vehicle Control Module lation Transmission control Cargo handling/working	Driver Module	Servo valve current control PWM output A/D conversion	ting Action mode setting nal function setting Pulse counter setting ion setting A/D conversion mode setting	Hardware (CPU+1/F circuit)
Vehicle Speed calcu Switch/lamp control		General 1/0 Pulse conversion	Clock setting CPU terminal function PWM function setting	
	Application ≺		Microcomputer_	

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